

and the major channel number.

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### **REJECTIONS UNDER 35 U.S.C § 112**

At pages 2-3, item 3 of the Office Action, claims 1-14 and 17-18 are rejected under 35 U.S.C. § 112, first paragraph.

It is respectfully submitted that the rejections are overcome in light of the above amendments.

### **REJECTIONS UNDER 35 U.S.C § 103**

At pages 3-8, item 5 of the Office Action, claims 1-11, 13 and 17-18 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Ozkan et al. (U.S. Patent 6,111,611) in view of Otsuki et al. (U.S. Patent 5,929,932), in view of Etheredge (U.S. Patent 6,172,674). This rejection is respectfully traversed in view of the following arguments.

Claim 1 recites "automatically displaying on a television screen, minor channel numbers of programs received through a currently selected major channel and a number of the major channel." Thus, the user can automatically confirm the major and minor channel numbers upon changing a channel or selecting an RF channel.

It is respectfully submitted that the Examiner's references do not disclose these features. Instead, Ozkan et al. discloses that the user selects sub-channel SC, and individual program channels are allocated both a first and a second channel number Ozkan et al., col. 6, ln. 14-18. However, this reference does not teach or suggest automatically displaying the major and minor channel numbers. In fact, the Examiner does not rely upon this reference as displaying channel numbers, but instead relies upon Otsuki et al.

However, Otsuki et al. generally relates to an EPG, and does not relate to a system having a major channel and corresponding minor channels. Thus, this reference does not teach or suggest automatically displaying a selected major and minor channel number. Instead, this reference discloses displaying a menu or sub-menu upon a request by the user. Otsuki et al. Col. 6, ln. 13-14; col. 7, ln. 37-38.

Etheredge is relied upon as teaching the removal of pop-up displays, and therefore teaches away from automatically displaying channel numbers.

Accordingly, claim 1, and claims 2-6 depending therefrom, are patentable over the Examiner's cited references.

Independent claims 7, 17 and 18 recite similar features that distinguish these claims from the Examiner's cited references. Accordingly, independent claims 7, 17 and 18, and claims 8-11 and 13 depending therefrom, are patentable over the Examiner's cited references.

At page 8, item 6 of the Office Action, claims 12 and 14 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Ozkan et al., Otsuki et al. and Etheredge, and further in view of Keenan (U.S. Patent 5,629,733). This rejection is respectfully traversed in view of the following arguments.

Claims 12 and 14 depend from claim 7, and are therefore patentable over Ozkan et al., Otsuki et al. and Etheredge for at least the above reasons. Keenan does not overcome the above deficiencies in Ozkan et al., Otsuki et al., and Etheredge, and is not relied upon by the Examiner for this purpose. Instead, the Examiner relies upon Keenan as disclosing an endless loop operation. Accordingly, withdrawal of the rejection of claims 12 and 14 is requested.

**CONCLUSION:**

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.


Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE CLAIMS:**

Please **AMEND** claims 1, 7, 17 and 18 in accordance with the following:

1. (TWICE AMENDED) A method for displaying channel information on a digital television for receiving digital multichannel television broadcasting, comprising the steps of:  
changing a current channel to a demanded major channel in response to a demand to change a major channel; and

automatically displaying on a television screen, minor channel numbers of programs received through a currently selected major channel[,  
wherein] and a number of the major channel [is not displayed].

7. (THREE TIMES AMENDED) A method for displaying channel information on a digital television for receiving digital multichannel television broadcasting, comprising the steps of:

selecting a radio frequency (RF) channel corresponding to a major channel number selected by a user;

displaying, as a viewing program, a program of a minor channel received through said selected RF channel corresponding to the major channel number selected by the user; and

automatically displaying minor channel numbers received through said major channel on a television screen[,

wherein the] and the major channel number [is not displayed].

17. (TWICE AMENDED) An apparatus for displaying channel information on a digital television for receiving digital multichannel television broadcasting, comprising:

a channel changing device to change a current channel to a selected major channel; and  
a display to automatically display minor channel numbers of programs received through the selected major channel[,  
wherein] and a number of the major channel [is not displayed].

18. (TWICE AMENDED) A device for displaying channel information on a digital television for receiving digital multichannel television broadcasting, comprising:

a selecting device to select a radio frequency channel corresponding to a major channel number selected by a user; and

a display to display, as a viewing program, a program of a minor channel received through said selected RF channel corresponding to the major channel number selected by the user, and to automatically display minor channel numbers received through said major channel[,  
wherein] and the major channel number [is not displayed].